



2017
CAPITAL IMPROVEMENT PROGRAM

JEFF JANKE, SENIOR MANAGING DIRECTOR

Transmission Program

2017 Project Cost:	\$110,139,000
Total Project Cost:	\$157,688,000
Estimated Completion Date:	2019
Council District:	1, 6, 7, 8

- Limestone to Gibbons Creek Transmission Line - \$82.759m
 - Construct a 345kV transmission line from Limestone to Gibbons Creek (Houston Import Project)
- Olinger to Wylie East Circuit - \$8.583m
 - 138kV Olinger – Elm Grove & Olinger – Firewheel transmission line improvements
- Wylie Switchyard to Firewheel Transmission Line - \$9.713m
 - Line rating increase of the Wylie Switchyard to Firewheel 138kV transmission line

Transmission Program *(Continued)*

2017 Project Cost:	\$110,139,000
Total Project Cost:	\$157,688,000
Estimated Completion Date:	2019
Council District:	1, 6, 7, 8

- Olinger to Ben Davis Transmission Line - \$7.210m
 - Line rating increase of the Olinger to Wylie and Wylie to Ben Davis transmission circuits
- Apollo to East Richardson Transmission Line - \$617k
 - Line rating increase of Apollo to East Richardson 138kV transmission line
- Apollo to Lookout Rebuild Transmission Line - \$411k
 - Line rating increase of Apollo to Lookout transmission line

Transmission Program *(Continued)*

2017 Project Cost:	\$110,139,000
Total Project Cost:	\$157,688,000
Estimated Completion Date:	2019
Council District:	1, 6, 7, 8

- Lookout to Firewheel Rebuild Transmission Line - \$308k
 - Line rating increase of the Lookout to Firewheel transmission line
- Forest Lane Substation Transmission Loop - \$281k
 - Connection of Forest Lane Substation to transmission grid
- Dent Road to Shelby Transmission Line - \$257k
 - New 138kV transmission line providing a third feed into the Greenville area

Substations Program

2017 Project Cost:	\$17,740,000
Total Project Cost:	\$42,340,000
Estimated Completion Date:	2019
Council District:	1, 2, 7, 8

- Ben Davis Substation - \$2.047m
 - New perimeter fencing and design for control house replacement
- Forest Lane Substation - \$1.831m
 - Construction of a new substation to loop-in transmission lines
- Swindell Substation - \$1.300m
 - New 138kV substation to address load demands in and around the Greenville area and GP&L Olinger generation facilities

Substations

Program (*Continued*)

2017 Project Cost:	\$17,740,000
Total Project Cost:	\$42,340,000
Estimated Completion Date:	2019
Council District:	1, 2, 7, 8

- Apollo Substation - \$825k
 - Conversion of the existing 69kV portion of the substation to 138kV and an upgrade of the 138kV portion to 3000A
- Newman Substation - \$187k
 - New breakers, relay panels, and switches

Substations Program (*Continued*)

2017 Project Cost:	\$17,740,000
Total Project Cost:	\$42,340,000
Estimated Completion Date:	2019
Council District:	1, 2, 7, 8

Additional Requests:

- Dent Road Switchyard - \$6.050m
 - New transmission switchyard for the new 138kV transmission line providing a third feed into the Greenville area
- Morada del Sol Switchyard - \$5.500m
 - New transmission switchyard for proposed solar farm to connect to GP&L's CREZ transmission line

Underground Distribution Program

2017 Project Cost:	\$5,304,000
Total Project Cost:	\$6,954,000
Estimated Completion Date:	2020
Council District:	All

- 200-Amp Loop Replacements - \$3.654m
 - Replace approximately 100k feet of direct buried underground cable with conduit due to system aging and failure rates
- Duct Bank at Holford Road and PGBT - \$550k
 - Support growth along President George Bush Turnpike
- Broadmoor and Northwest Highway Loop Conversion - \$550k
 - Remove temporary overhead line service and convert four existing loops into five loops to balance feeder load
- Underground Conversion at English Drive and Shiloh - \$550k
 - Convert overhead service located next to creek to underground



Street & Thoroughfare Lighting Program

2017 Project Cost: \$3,484,000
Total Project Cost: \$14,784,000
Estimated Completion Date: 2022
Council District: 1, 2, 3, 4, 5 for 2017

- LED Street Light Conversion (Residential) - \$2.346m
 - LED Residential Street Light Conversion project to convert existing residential street lighting throughout the city to LED-type lighting
- LED Street Light Conversion (Thoroughfare) - \$1.138m
 - LED Thoroughfare Street Light Conversion project to convert existing thoroughfare lighting throughout the City to LED-type lighting

Production Program

2017 Project Cost:	\$2,386,000
Total Project Cost:	\$2,386,000
Estimated Completion Date:	2017
Council District:	All

- Olinger 2 and 3 Controls System - \$2.093m
 - Replace existing steam turbine controls at Olinger 2 and Olinger 3
- CEMS Analyzer Replacement - \$293k
 - Replacement of the Continuous Emission Monitoring System analyzers at Olinger and Spencer generation facilities

Overhead Distribution Program

2017 Project Cost:	\$1,984,000
Total Project Cost:	\$1,984,000
Estimated Completion Date:	2017
Council District:	5, 6, 8

- Overhead Lateral Rebuilds - \$1.042m
 - Replacement of 15 lateral lines, including alley overhead rebuilds
- Overhead Feeder Rebuilds - \$942k
 - New poles and conductors for the Jupiter 2 Feeder
 - New poles and conductors for the Shiloh 2 Feeder

Communication Improvements

2017 Project Cost:	\$1,609,000
Total Project Cost:	\$1,609,000
Estimated Completion Date:	2017
Council District:	All

- ETRM System - \$1.103m
 - Energy Trade and Risk Management System to support end-to-end energy operation activities under a single integrated system
- Cyber Security - \$506k
 - Communication equipment for pending NERC Critical Infrastructure Protection requirements

Various Improvements

2017 Project Cost:	\$869,000
Total Project Cost:	\$869,000
Estimated Completion Date:	2017
Council District:	All

- Distribution Building Improvements - \$559k
 - Improvements to and reconfiguration of Distribution's field service and office building
- HVAC Replacement - \$200k
 - Replacement of HVACs at the McIntire facility's communication room and the backup system operation/QSE center
- Equipment - \$110k
 - Shear cutter
 - Relay test set

Relocation Program

2017 Project Cost:	\$667,000
Total Project Cost:	\$667,000
Estimated Completion Date:	2017
Council District:	1

- Brand Road Relocation - \$667k
 - Relocation of services to accommodate the road widening of Brand Road north of President George Bush Turnpike

SUMMARY OF CIP PROJECTS

Project Name	2017 CIP Impact Actionable Projects
Transmission	\$110,139,000
Substations	17,740,000
Underground Distribution	5,304,000
Street & Thoroughfare Lighting	3,484,000
Production	2,386,000
Overhead Distribution	1,984,000
Communication Improvements	1,609,000
Various Improvements	869,000
Relocation	667,000

QUESTIONS?

